

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P455838

Luminaire Tested: **GALN-SA7A-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31587 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

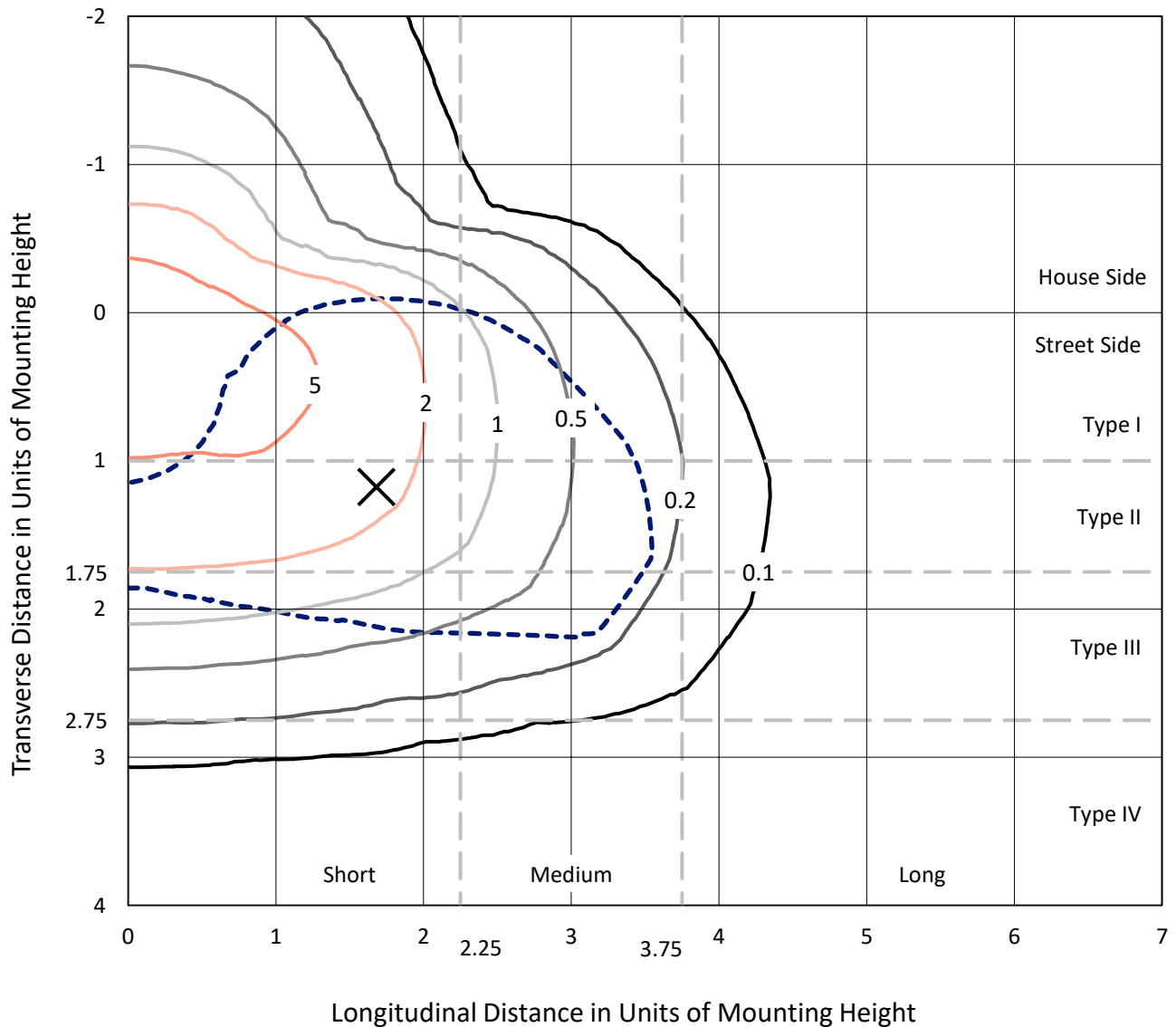
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

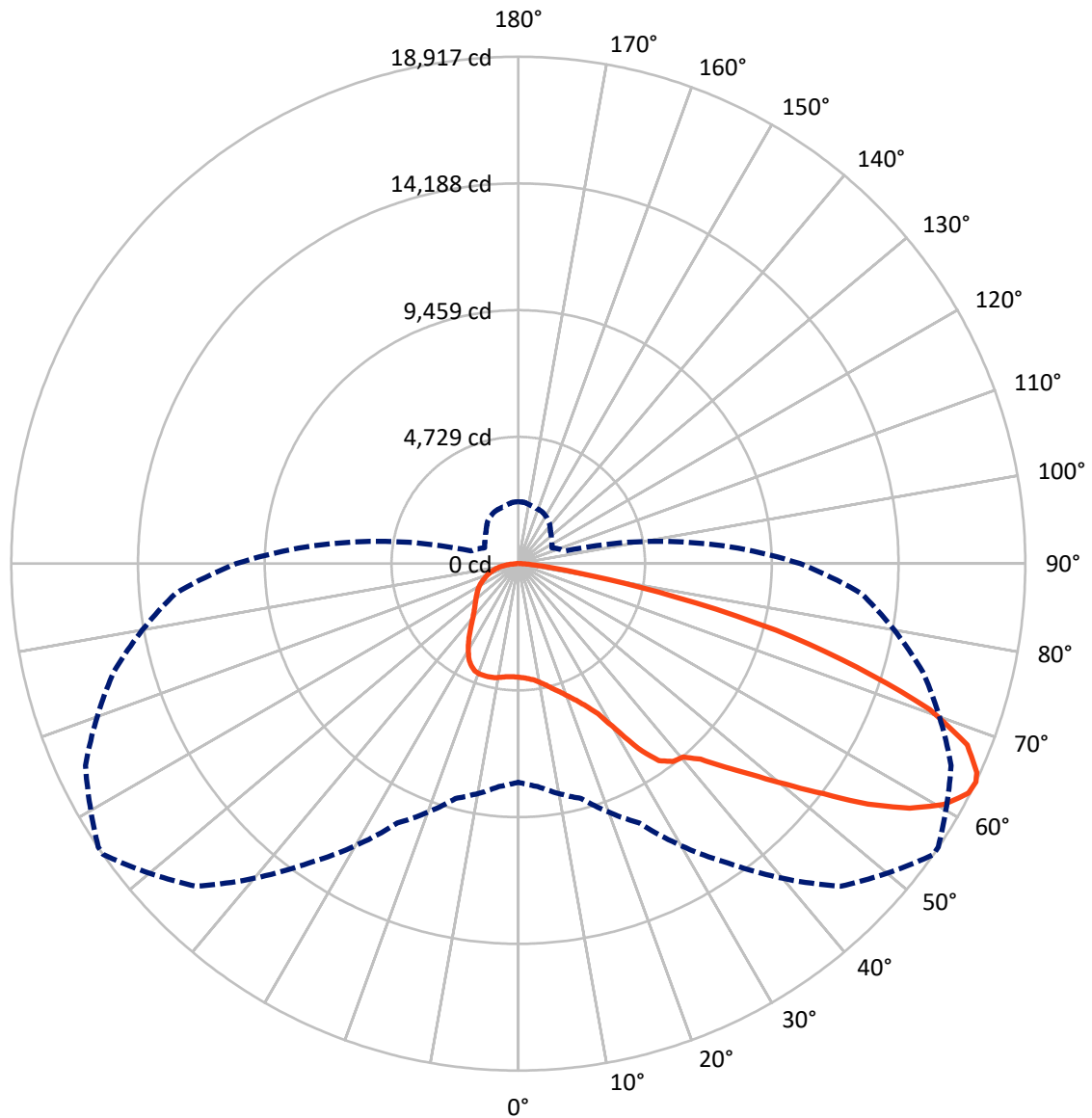
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7673.1	0.0	7673.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	23913.9	0.0	23913.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	31587.0	0.0	31587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.2	1.3
10°-20°	1300.8	4.1
20°-30°	2315.7	7.3
30°-40°	3563.0	11.3
40°-50°	5050.8	16.0
50°-60°	7310.9	23.1
60°-70°	7566.0	24.0
70°-80°	3543.2	11.2
80°-90°	524.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31587.0	100.0
0°-180°	31587.0	100.0

Coefficient of Utilization



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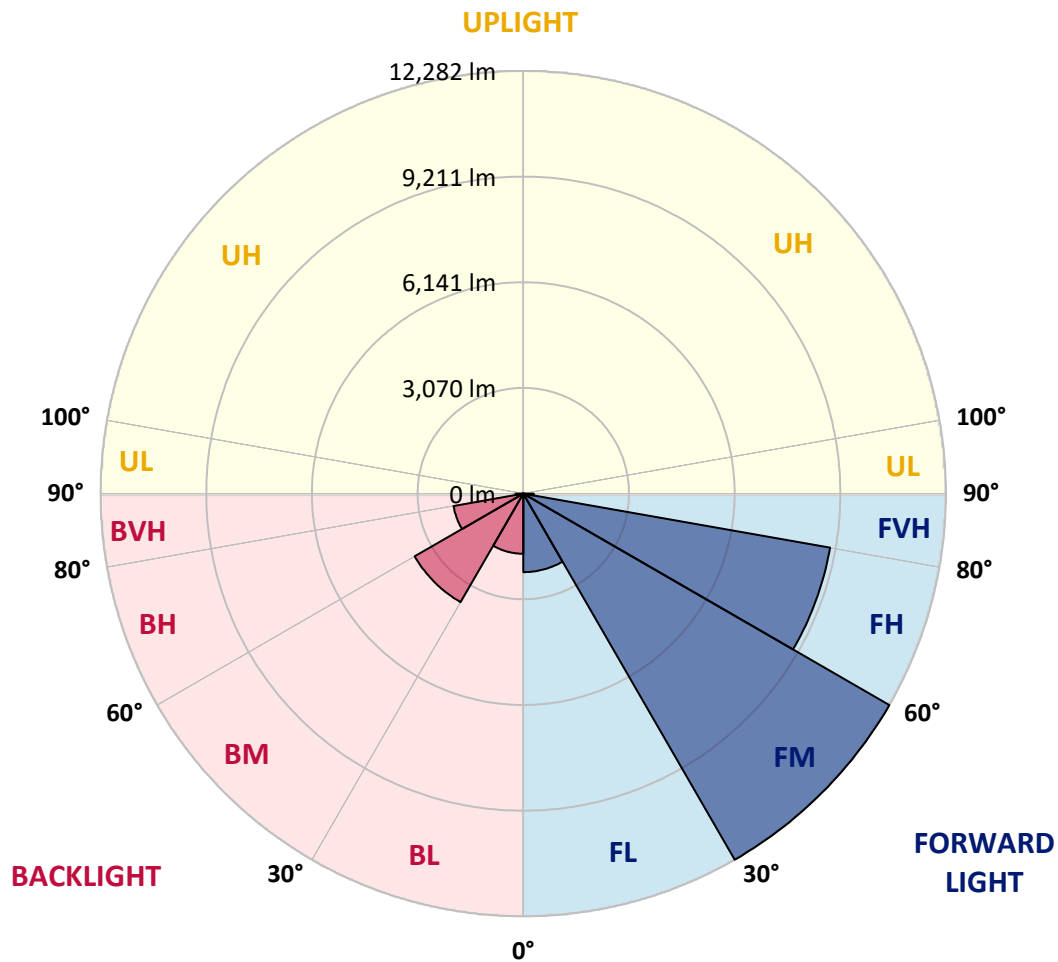
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2281.1	7.2			
FM	(30°-60°)	12281.9	38.9			
FH	(60°-80°)	9050.6	28.7			G4/12000
FVH	(80°-90°)	300.3	1.0			G3/500
BL	(0°-30°)	1747.6	5.5	B3/2500		
BM	(30°-60°)	3642.7	11.5	B3/5000		
BH	(60°-80°)	2058.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	224.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0
2.5°	4285.6	4283.8	4289.1	4283.8	4287.3	4275.0	4269.7	4273.2	4268.0	4259.2	4243.3
5°	4338.4	4336.6	4338.4	4331.3	4334.9	4327.8	4315.5	4319.0	4310.2	4290.8	4268.0
7.5°	4428.2	4421.1	4421.1	4419.4	4412.3	4401.8	4393.0	4389.4	4380.6	4356.0	4320.8
10°	4544.4	4544.4	4546.1	4532.1	4540.9	4521.5	4512.7	4510.9	4481.0	4449.3	4400.0
12.5°	4697.6	4706.4	4701.1	4694.0	4690.5	4683.5	4653.5	4660.6	4627.1	4572.6	4512.7
15°	4887.7	4901.8	4893.0	4889.5	4880.7	4854.3	4841.9	4836.7	4792.6	4713.4	4634.2
17.5°	5139.5	5121.9	5114.9	5106.1	5069.1	5049.7	5028.6	5025.1	4986.3	4893.0	4769.8
20°	5359.6	5384.2	5370.2	5361.4	5324.4	5287.4	5271.6	5266.3	5232.8	5130.7	4933.5
22.5°	5621.9	5627.2	5632.5	5611.4	5593.8	5565.6	5537.4	5528.6	5516.3	5410.7	5169.4
25°	5901.9	5923.0	5905.4	5884.3	5863.2	5861.4	5887.8	5884.3	5879.0	5776.9	5482.8
27.5°	6357.9	6377.3	6382.6	6359.7	6278.7	6285.7	6345.6	6365.0	6445.9	6276.9	5886.0
30°	6615.0	6634.3	6678.4	6764.6	6893.2	7005.9	7150.2	7194.2	7271.7	6953.0	6365.0
32.5°	6773.4	6780.5	6859.7	7019.9	7405.5	7826.3	8219.0	8234.8	8284.1	7836.9	6803.4
35°	7023.5	7028.7	7092.1	7268.2	7720.7	8421.5	9028.9	9048.3	9007.8	8111.6	7007.6
37.5°	7331.6	7345.7	7386.2	7532.3	8072.8	8919.7	9365.2	9351.1	8991.9	8329.9	7368.6
40°	7780.6	7780.6	7733.0	7930.2	8444.4	9205.0	9483.2	9458.5	9363.4	8962.0	7917.9
42.5°	8176.7	8169.7	8282.4	8416.2	8909.2	9645.2	9977.9	10018.4	10175.1	9756.1	8543.0
45°	8692.6	8724.3	8787.7	9030.7	9699.7	10397.0	10826.6	10865.3	11087.2	10691.0	9273.6
47.5°	9213.8	9224.3	9423.3	9747.3	10678.7	11416.4	11768.6	11832.0	12034.4	11784.4	10060.7
50°	9583.5	9683.9	10002.6	10513.2	11687.6	12659.5	12934.2	13009.9	13367.3	12974.7	10978.0
52.5°	9974.4	10073.0	10462.1	11240.4	12846.1	13930.7	14268.8	14319.8	14691.3	14179.0	11916.5
55°	10308.9	10400.5	10842.4	11884.8	13768.7	15228.4	15841.1	15781.2	15959.0	15106.9	12640.1
57.5°	10363.5	10437.5	10993.9	12296.8	14462.4	16341.1	17219.7	17254.9	17048.9	15800.6	13237.0
60°	9941.0	10092.4	10731.5	12252.8	14774.1	17115.8	18248.0	18272.6	17688.1	16156.2	13474.7
62.5°	9192.7	9176.8	9949.8	11545.0	14337.4	17291.9	18853.7	18827.2	17938.1	15985.5	13244.0
64°	8159.1	8349.3	9071.2	10675.2	13633.2	17020.8	18917.0	18903.0	17818.4	15629.8	12851.4
65°	7528.8	7518.2	8231.3	9963.8	12932.4	16612.3	18804.4	18785.0	17568.3	15311.1	12546.8
67.5°	5435.3	5460.0	6164.2	7689.0	10513.2	15015.3	18070.1	17997.9	16582.3	14254.7	11388.3
70°	3292.5	3306.6	3859.5	5100.8	7546.4	12138.3	16288.3	16291.8	15073.4	12677.1	9692.7
72.5°	1734.3	1771.3	1993.1	2896.4	4583.1	8516.5	13214.1	13527.5	12941.2	10819.5	7657.3
75°	964.9	970.1	1126.9	1427.9	2338.2	4766.2	9932.1	10021.9	10245.6	8708.5	5662.4
77.5°	736.0	746.5	795.8	922.6	1273.0	2209.7	6011.1	6461.8	7220.7	6139.6	3230.9
80°	596.9	607.4	649.7	725.4	846.9	1047.6	2792.5	3035.5	3864.8	2725.6	1260.7
82.5°	464.8	457.8	512.4	561.7	616.2	619.8	1146.2	1267.7	1574.1	1172.6	545.8
85°	345.1	345.1	389.1	378.6	397.9	362.7	505.3	558.1	630.3	498.3	253.5
87.5°	137.3	151.4	255.3	228.9	177.8	142.6	186.6	197.2	218.3	195.4	105.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0	4238.0
2.5°	4245.1	4250.3	4238.0	4229.2	4225.7	4220.4	4215.1	4216.9	4223.9	4231.0	4229.2
5°	4266.2	4268.0	4246.8	4236.3	4229.2	4222.2	4222.2	4227.5	4241.5	4252.1	4252.1
7.5°	4319.0	4319.0	4289.1	4269.7	4259.2	4246.8	4243.3	4245.1	4255.6	4269.7	4271.5
10°	4401.8	4394.7	4356.0	4326.1	4306.7	4276.8	4250.3	4236.3	4241.5	4250.3	4250.3
12.5°	4502.1	4482.8	4433.5	4393.0	4345.4	4289.1	4234.5	4206.3	4204.6	4213.4	4209.9
15°	4609.5	4588.4	4519.7	4445.8	4363.0	4280.3	4215.1	4174.6	4142.9	4134.1	4153.5
17.5°	4734.5	4690.5	4595.4	4493.3	4370.1	4262.7	4160.6	4077.8	4021.5	4005.6	4010.9
20°	4886.0	4827.9	4699.3	4539.1	4364.8	4199.3	4040.8	3929.9	3838.3	3810.2	3813.7
22.5°	5095.5	4995.1	4806.7	4562.0	4320.8	4079.6	3859.5	3715.1	3604.2	3560.1	3586.6
25°	5333.2	5224.0	4908.9	4556.7	4206.3	3887.6	3644.7	3456.3	3355.9	3290.8	3304.8
27.5°	5660.7	5467.0	5018.0	4509.2	4042.6	3653.5	3371.8	3193.9	3102.4	3068.9	3084.8
30°	6079.7	5782.2	5136.0	4380.6	3783.8	3357.7	3097.1	2980.9	2926.3	2884.0	2898.1
32.5°	6382.6	6004.0	5162.4	4164.1	3503.8	3088.3	2910.4	2824.2	2764.3	2723.8	2732.6
35°	6599.1	6192.4	5150.1	3898.2	3211.5	2866.4	2762.5	2692.1	2595.3	2507.2	2491.4
37.5°	6889.6	6428.3	5060.3	3607.7	2922.8	2716.8	2642.8	2512.5	2373.4	2255.5	2250.2
40°	7335.1	6704.8	4868.4	3266.1	2676.3	2605.8	2516.1	2347.0	2197.4	2102.3	2095.2
42.5°	7794.7	6960.1	4607.8	2906.9	2473.8	2489.6	2380.5	2213.2	2121.7	2060.0	2053.0
45°	8356.3	7236.5	4326.1	2595.3	2324.1	2380.5	2262.5	2165.7	2111.1	2070.6	2060.0
47.5°	8963.8	7520.0	4009.1	2315.3	2197.4	2280.1	2213.2	2169.2	2139.3	2111.1	2098.8
50°	9618.7	7836.9	3711.6	2090.0	2082.9	2176.2	2207.9	2192.1	2174.5	2165.7	2155.1
52.5°	10337.1	8160.9	3461.6	1931.5	1982.6	2102.3	2209.7	2222.0	2222.0	2216.7	2209.7
55°	10823.1	8386.2	3208.0	1803.0	1880.4	2042.4	2206.2	2253.7	2271.3	2264.3	2257.2
57.5°	11182.3	8509.5	2889.3	1692.0	1794.2	1984.3	2186.8	2257.2	2274.8	2283.6	2280.1
60°	11256.2	8395.1	2472.0	1575.8	1700.8	1899.8	2116.4	2204.4	2227.3	2281.9	2287.2
62.5°	10923.4	8042.9	2056.5	1461.4	1586.4	1771.3	2021.3	2144.5	2190.3	2274.8	2283.6
64°	10514.9	7648.5	1825.9	1389.2	1512.4	1699.1	1973.8	2128.7	2188.6	2301.2	2308.3
65°	10215.6	7361.5	1681.5	1343.4	1464.9	1651.5	1947.3	2134.0	2204.4	2341.7	2352.3
67.5°	9113.4	6373.8	1391.0	1236.0	1352.2	1570.6	1952.6	2178.0	2200.9	2357.6	2355.8
70°	7541.1	5074.4	1165.6	1137.4	1243.1	1505.4	1931.5	2107.6	2109.3	2213.2	2188.6
72.5°	5646.6	3750.3	1010.6	1035.3	1121.6	1350.5	1824.1	2012.5	1982.6	1996.6	1972.0
75°	3878.8	2480.8	869.8	926.1	994.8	1193.8	1672.7	1827.6	1780.1	1762.5	1744.9
77.5°	2070.6	1371.6	723.7	818.7	864.5	1031.8	1459.6	1609.3	1560.0	1491.3	1468.4
80°	838.1	646.2	582.8	677.9	704.3	831.1	1214.9	1308.2	1271.2	1151.5	1112.8
82.5°	420.8	387.4	457.8	533.5	535.3	593.4	903.2	991.3	908.5	762.4	728.9
85°	220.1	227.1	315.2	375.0	331.0	320.4	542.3	600.4	551.1	478.9	431.4
87.5°	79.2	91.6	165.5	163.7	116.2	61.6	119.7	58.1	31.7	19.4	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)